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(71) Applicant (for all designated States except US): Technip France [FR/FR]; 6-8, Alée de L'Arche, Faubourg de L'Arche, F-92400 Courbevoie (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BARENDRREGT, Simon [NL/NL]; Ghijselant 246, NL-3161 VR Rhoon (NL). PITCHER, Matthew, Bowers [US/NL]; Zeekant 53, NL-2586 AC Den Haag (NL). DEN UIJL, Jan [NL/NL]; Hunze 47, NL-2911 EG Nieuwerkerk a/d IJssel (NL).

(74) Agent: WINCKELS, J.H.F.; Johan de Wittlaan 7, NL-Den Haag 2517 JR (NL).

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(54) Title: CRACKING FURNACE

(57) Abstract: The present invention refers to a novel type of cracking furnaces comprising a firebox provided with cracking coils - the cracking coils having at least one inlet, at least one inlet section, at least one outlet and at least one outlet section - and burners, wherein the parts of the coils are shielded. The invention further relates to a process for cracking hydrocarbon feeds, making use of a furnace according to the invention.